FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Freestone Power Generation, LLC

AUTHORIZING THE OPERATION OF
Freestone Power Generation
Freestone Energy Center
Fossil Fuel Electric Power Generation

LOCATED AT
Freestone County, Texas
Latitude 31° 53' 28" Longitude 96° 6' 38"
Regulated Entity Number: RN102333853

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site, emission units and affected source listed in this permit. Operations of the site, emission units and affected source listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site, emission units and affected source authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site, emission units and affected source.

Permit No: O2156 Issuance Date: _____

_____
For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.

F. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 101.372 (relating to General Provisions)

(ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)

(iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)

(iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)

(v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

B. Title 30 TAC § 101.3 (relating to Circumvention)

C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

H. Title 30 TAC § 101.221 (relating to Operational Requirements)

I. Title 30 TAC § 101.222 (relating to Demonstrations)

J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A,

Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

(i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(1)(E)

(iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

(iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance

from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).

D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

(i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

(ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

(iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

   A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

   B. Title 40 CFR § 60.8 (relating to Performance Tests)

   C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

   D. Title 40 CFR § 60.12 (relating to Circumvention)

   E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

   F. Title 40 CFR § 60.14 (relating to Modification)

   G. Title 40 CFR § 60.15 (relating to Reconstruction)

   H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

Additional Monitoring Requirements

6. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

7. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

   A. Are incorporated by reference into this permit as applicable requirements

   B. Shall be located with this operating permit

C. Are not eligible for a permit shield

8. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

9. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

10. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

11. Use of Discrete Emission Credits to comply with the applicable requirements:

    A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

        (i) Title 30 TAC Chapter 115

        (ii) Title 30 TAC Chapter 117

        (iii) If applicable, offsets for Title 30 TAC Chapter 116

        (iv) Temporarily exceed state NSR permit allowables

    B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

        (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

        (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

        (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

        (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Protection of Stratospheric Ozone

12. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:

A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Permit Location

13. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

14. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Acid Rain Permit Requirements

15. For units GT1, GT2, GT3, and GT4, located at the affected source identified by ORIS/Facility code 55226, the designated representative and the owner or operator, as applicable, shall comply with the following Acid Rain Permit requirements.

A. General Requirements

(i) Under 30 TAC § 122.12(1) and 40 CFR Part 72, the Acid Rain Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP) and have an independent public comment process which may be separate from, or combined with the FOP.

(ii) The owner and operator shall comply with the requirements of 40 CFR Part 72 and 40 CFR Part 76. Any noncompliance with the Acid Rain Permit will be considered noncompliance with the FOP and may be subject to enforcement action.

(iii) The owners and operators of the affected source shall operate the source and the unit in compliance with the requirements of this Acid Rain Permit and all other applicable State and federal requirements.

(iv) The owners and operators of the affected source shall comply with the General Terms and Conditions of the FOP that incorporates this Acid Rain Permit.

(v) The term for the Acid Rain permit shall commence with the issuance of the FOP that incorporates the Acid Rain permit and shall be run concurrent with the remainder of the term of the FOP. Renewal of the Acid Rain permit shall coincide with the renewal of the FOP that incorporates the Acid Rain permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring Requirements

(i) The owners and operators, and the designated representative, of the affected source and each affected unit at the source shall comply with the monitoring requirements contained 40 CFR Part 75.

(ii) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 and any other credible evidence shall be used to determine compliance by the affected source with the acid rain emissions limitations and emissions reduction requirements for SO_2 and NO_x under the ARP.

(iii) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emission of other pollutants or other emissions characteristics at the unit under other applicable requirements of the FCAA Amendments (42 U.S.C. 7401, as amended November 15, 1990) and other terms and conditions of the operating permit for the source.

C. SO_2 emissions requirements

(i) The owners and operators of each source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for SO_2.

(ii) As of the allowance transfer deadline the owners and operators of the affected source and each affected unit at the source shall hold, in the unit's compliance subaccount, allowances in an amount not less than the total annual emissions of SO_2 for the previous calendar year.

(iii) Each ton of SO_2 emitted in excess of the acid rain emissions limitations for SO_2 shall constitute a separate violation of the FCAA amendments.

(iv) An affected unit shall be subject to the requirements under (i) and (ii) of the SO_2 emissions requirements as follows:

(1) Starting January 1, 2000, an affected unit under 40 CFR § 72.6(a)(2); or

(2) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR § 72.6(a)(3).

(v) Allowances shall be held in, deducted from, or transferred into or among Allowance Tracking System accounts in accordance with the requirements of the ARP.

(vi) An allowance shall not be deducted, for compliance with the requirements of this permit, in a calendar year before the year for which the allowance was allocated.

(vii) An allowance allocated by the EPA Administrator or under the ARP is a limited authorization to emit SO_2 in accordance with the ARP. No provision of the ARP, Acid Rain permit application, this Acid Rain Permit, or an exemption under 40 CFR §§ 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(viii) An allowance allocated by the EPA Administrator under the ARP does not constitute a property right.

D. NO_x Emission Requirements

(i) The owners and operators of the source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for NO_x under 40 CFR Part 76.

E. Excess emissions requirements for SO_2 and NO_x.

(i) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.

(ii) If an affected source has excess emissions in any calendar year shall, as required by 40 CFR Part 77:

(1) Pay, without demand, the penalty required and pay, upon demand, the interest on that penalty.

(2) Comply with the terms of an approved offset plan.

F. Recordkeeping and Reporting Requirements

(i) Unless otherwise provided, the owners and operators of the affected source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the EPA Administrator.

(1) The certificate of representation for the designated representative for the source and each affected unit and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR § 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.

(2) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping (rather than a five-year period cited in 30 TAC § 122.144), the 3-year period shall apply.

(3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the ARP or relied upon for compliance certification.

(4) Copies of all documents used to complete an acid rain permit application and any other submission under the ARP or to demonstrate compliance with the requirements of the ARP.

(ii) The designated representative of an affected source and each affected unit at the source shall submit the reports required under the ARP including those under 40 CFR Part 72, Subpart I and 40 CFR Part 75.

G. Liability

(i) Any person who knowingly violates any requirement or prohibition of the ARP, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR §§ 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to FCAA § 113(c).

(ii) Any person who knowingly makes a false, material statement in any record, submission, or report under the ARP shall be subject to criminal enforcement pursuant to FCAA § 113(c) and 18 U.S.C. 1001.

(iii) No permit revision shall excuse any violation of the requirements of the ARP that occurs prior to the date that the revision takes effect.

(iv) The affected source and each affected unit shall meet the requirements of the ARP contained in 40 CFR Parts 72 through 78.

(v) Any provision of the ARP that applies to an affected source or the designated representative of an affected source shall also apply to the owners and operators of such source and of the affected units at the source.

(vi) Any provision of the ARP that applies to an affected unit (including a provision applicable to the DR of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR § 72.44 (Phase II repowering extension plans) and 40 CFR § 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR §§ 75.16, 75.17, and 75.18), the owners and operators and the DR of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the DR and that is located at a source of which they are not owners or operators or the DR.

(vii) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or DR of such source or unit, shall be a separate violation of the FCAA Amendments.

H. Effect on other authorities. No provision of the ARP, an acid rain permit application, an acid rain permit, or an exemption under 40 CFR §§ 72.7 or 72.8 shall be construed as:

(i) Except as expressly provided in Title IV of the FCAA Amendments, exempting or excluding the owners and operators and, to the extent applicable, the DR of an affected source or affected unit from compliance with any other provision of the FCAA Amendments, including the provisions of Title I of the FCAA Amendments relating to applicable National Ambient Air Quality Standards or State Implementation Plans.

(ii) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the FCAA Amendments.

(iii) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law.

(iv) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(v) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.

I. The number of SO_2 allowances allocated by the EPA in 40 CFR Part 73 is enforceable only by the EPA Administrator.

Cross-State Air Pollution Rule (CSAPR) Trading Program Requirements

16. For units GT1, GT2, GT3, and GT4, located at the site identified by Plant code/ORIS/Facility code 55226, the designated representative and the owner or operator, as applicable, shall comply with the following CSAPR requirements.

A. General Requirements

(i) The owners and operators of the CSAPR NO_x source shall operate the source and the unit in compliance with the requirements of the applicable CSAPR Trading Programs and all other applicable State and federal requirements.

(ii) The owners and operators of the CSAPR NO_x source shall comply with the requirements of 40 CFR Part 97, Subpart EEEEE for CSAPR NO_x Ozone Season Group 2 Trading Program, and with the General Terms and Conditions of the Federal Operating Permit (FOP) that incorporates the CSAPR requirements.

B. Description of CSAPR Monitoring Provisions

(i) The CSAPR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following paragraph(s). These unit(s) are subject to the requirements for the CSAPR NO_x Ozone Season Group 2 Trading Program.

(1) For units GT1, GT2, GT3, and GT4, the owners and operators shall comply with the continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart H for NO_x, and with the excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D for heat input.

(ii) The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR §§ 97.830 through 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading program.

(iii) Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR §§ 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at https://www.epa.gov/airmarkets/clean-air-markets-monitoring-plans-part-75-sources.

(iv) Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR § 75.66 and § 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

(v) Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR §§ 97.830 through 97.834 (CSAPR NO_x Ozone Season Group 2 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR § 75.66 and § 97.835 (CSAPR NO_x Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

(vi) The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR §§ 97.830 through 97.834 (CSAPR NO_x Ozone Season Group 2 Trading Program), and therefore procedures for minor permit revisions, in accordance with 30 TAC § 122.217, may be used to add or change this unit's monitoring system description.

17. CSAPR NO_x Ozone Season Group 2 Trading Program Requirements (40 CFR § 97.806)

A. Designated representative requirements

(i) The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§ 97.813 through 97.818.

B. Emissions monitoring, reporting, and recordkeeping requirements

(i) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR § 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), § 97.831 (initial monitoring system certification and recertification procedures), § 97.832 (monitoring system out-of-control periods), § 97.833 (notifications concerning monitoring), § 97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and § 97.835 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(ii) The emissions data determined in accordance with 40 CFR § 97.830 through § 97.835 and any other credible evidence shall be used to calculate allocations of

CSAPR NO_x Ozone Season Group 2 allowances under 40 CFR §§ 97.811(a)(2) and (b) and § 97.812 and to determine compliance with the CSAPR NO_x Ozone Season Group 2 emissions limitation and assurance provisions under paragraph C. below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§ 97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

C. NO_x emissions requirements

(i) CSAPR NO_x Ozone Season Group 2 emissions limitation

(1) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.824(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 2 units at the source.

(2) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 2 units at a CSAPR NO_x Ozone Season Group 2 source are in excess of the CSAPR NO_x Ozone Season Group 2 emissions limitation set forth in paragraph C.(i)(1) above, then:

(a) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold the CSAPR NO_x Ozone Season Group 2 allowances required for deduction under 40 CFR § 97.824(d); and

(b) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.

(ii) CSAPR NO_x Ozone Season Group 2 assurance provisions

(1) If total NO_x emissions during a control period in a given year from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.825(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined

by the Administrator in accordance with 40 CFR § 97.825(b), of multiplying -

(a) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and

(b) The amount by which total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state for such control period exceed the state assurance level.

(2) The owners and operators shall hold the CSAPR NO_x Ozone Season Group 2 allowances required under paragraph C.(ii)(1) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(3) Total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the state NO_x Ozone Season Group 2 trading budget under 40 CFR § 97.810(a) and the state's variability limit under 40 CFR § 97.810(b).

(4) It shall not be a violation of 40 CFR Part 97, Subpart EEEEE or of the Clean Air Act if total NO_x emissions from all CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the CSAPR NO_x Ozone Season Group 2 units at CSAPR NO_x Ozone Season Group 2 sources in the state during a control period exceeds the common designated representative's assurance level.

(5) To the extent the owners and operators fail to hold CSAPR NO_x Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs C.(ii)(1) through (3) above,

(a) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(b) Each CSAPR NO_x Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs C.(ii)(1) through (3) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.

(iii) Compliance periods

(1) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(i) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830(b) and for each control period thereafter.

(2) A CSAPR NO_x Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(ii) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830(b) and for each control period thereafter.

(iv) Vintage of allowances held for compliance

(1) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraph C.(i)(1) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated for such control period or a control period in a prior year.

(2) A CSAPR NO_x Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs C.(i)(2)(a) and (ii)(1) through (3) above for a control period in a given year must be a CSAPR NO_x Ozone Season Group 2 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(v) Allowance Management System requirements. Each CSAPR NO_x Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart EEEEE.

(vi) Limited authorization. A CSAPR NO_x Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:

(1) Such authorization shall only be used in accordance with the CSAPR NO_x Ozone Season Group 2 Trading Program; and

(2) Notwithstanding any other provision of 40 CFR Part 97, Subpart EEEEE, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(vii) Property right. A CSAPR NO_x Ozone Season Group 2 allowance does not constitute a property right.

D. FOP revision requirements

(i) No FOP revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_x Ozone Season Group 2 allowances in accordance with 40 CFR Part 97, Subpart EEEEE.

(ii) This FOP incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§ 97.830 through 97.835, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, subpart H), an excepted monitoring system (pursuant to 40 CFR Part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR § 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, subpart E). Therefore the Description of CSAPR Monitoring Provisions for CSAPR subject unit(s) may be added to, or changed, in this FOP using procedures for minor permit revisions in accordance with 30 TAC § 122.217.

E. Additional recordkeeping and reporting requirements

(i) Unless otherwise provided, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(1) The certificate of representation under 40 CFR § 97.816 for the designated representative for the source and each CSAPR NO_x Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR § 97.816 changing the designated representative.

(2) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart EEEEE.

(3) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_x Ozone Season Group 2 Trading Program.

(ii) The designated representative of a CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO_x Ozone Season Group 2 Trading Program, except as provided in 40 CFR § 97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under 30 TAC § 122.165.

F. Liability

(i) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 source or the designated representative of a CSAPR NO_x Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the CSAPR NO_x Ozone Season Group 2 units at the source.

(ii) Any provision of the CSAPR NO_x Ozone Season Group 2 Trading Program that applies to a CSAPR NO_x Ozone Season Group 2 unit or the designated

representative of a CSAPR NO_x Ozone Season Group 2 unit shall also apply to the owners and operators of such unit.

G. Effect on other authorities

(i) No provision of the CSAPR NO_x Ozone Season Group 2 Trading Program or exemption under 40 CFR § 97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_x Ozone Season Group 2 source or CSAPR NO_x Ozone Season Group 2 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
DFWP1	SRIC Engines	N/A	63ZZZZ-ENG	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EMERG	SRIC Engines	N/A	63ZZZZ-ENG	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-CTG	Stationary Turbines	GT1, GT2, GT3, GT4	60GG-1	40 CFR Part 60, Subpart GG	No changing attributes.
GRPHRSGSTK	Emission Points/Stationary Vents/Process Vents	STACK1, STACK2, STACK3, STACK4	1151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
GRPHRSGSTK	Emission Points/Stationary Vents/Process Vents	STACK1, STACK2, STACK3, STACK4	111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
LAKE-ENG	SRIC Engines	N/A	63ZZZZ-ENG	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
DFWP1	EU	63ZZZZ-ENG	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
EMERG	EU	63ZZZZ-ENG	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
GRP-CTG	EU	60GG-1	SO_2	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None
GRP-CTG	EU	60GG-1	NO_X	40 CFR Part 60, Subpart GG	§ 60.332(a)(1) § 60.332(a)(3)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	[G]§ 60.334(b) § 60.334(j) § 60.334(j)(1) [G]§ 60.334(j)(1)(iii) [G]§ 60.335(a) § 60.335(b)(1) § 60.335(b)(2) § 60.335(c)(1)	[G]§ 60.334(b)	§ 60.334(j) § 60.334(j)(5)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPHRSGSTK	EP	1151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See Periodic Monitoring Summary	None	None
GRPHRSGSTK	EP	111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
LAKE-ENG	EU	63ZZZZ-ENG	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Additional Monitoring Requirements

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPHRSGSTK	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: 111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually	
Averaging Period: n/a	
Deviation Limit: Fire pipeline-quality natural gas	
Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPHRSGSTK	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: 1151-1
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Fuel Type	
Minimum Frequency: Annually	
Averaging Period: n/a	
Deviation Limit: Fire pipeline-quality natural gas	
Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, it shall be considered and reported as a deviation.	

Permit Shield

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
CT1	N/A	30 TAC Chapter 115, HRVOC Cooling Towers	Not located in the HGA area.
CT1	N/A	40 CFR Part 63, Subpart Q	No chromium-based water treatment chemicals used.
CT2	N/A	30 TAC Chapter 115, HRVOC Cooling Towers	Not located in the HGA area.
CT2	N/A	40 CFR Part 63, Subpart Q	No chromium-based water treatment chemicals used.
DEG1	N/A	30 TAC Chapter 115, Degreasing Processes	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, or Victoria County.
DFWP1	N/A	30 TAC Chapter 112, Sulfur Compounds	Not a liquid or solid fuel-fired steam generator, furnace, or heater.
DFWP1	N/A	30 TAC Chapter 117, Subchapter B	Not located in an applicable ozone nonattainment area.
DFWP1	N/A	40 CFR Part 60, Subpart IIII	Not constructed, modified, or reconstructed after July 11, 2005.
DFWP1STK	N/A	30 TAC Chapter 115, HRVOC Vent Gas	Not located in the HGA area.
DFWP1STK	N/A	30 TAC Chapter 115, Vent Gas Controls	Not located in HGA, BPA, DFW or El Paso areas.
EMERG	N/A	30 TAC Chapter 112, Sulfur Compounds	Not a liquid or solid fuel-fired steam generator, furnace, or heater.
EMERG	N/A	30 TAC Chapter 117, Subchapter B	Not located in an applicable ozone nonattainment area.
EMERG	N/A	40 CFR Part 60, Subpart IIII	Not constructed, modified, or reconstructed after July 11, 2005.
EMERGSTK	N/A	30 TAC Chapter 115, HRVOC Vent Gas	Not located in the HGA area.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
EMERGSTK	N/A	30 TAC Chapter 115, Vent Gas Controls	Not located in HGA, BPA, DFW or El Paso areas.
FGHEATER	N/A	30 TAC Chapter 112, Sulfur Compounds	Not a liquid or solid fuel-fired steam generator, furnace, or heater.
FGHEATER	N/A	30 TAC Chapter 117, Subchapter B	Not located in an applicable ozone nonattainment area.
FUG1	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Gregg, Nueces, or Victoria County.
FUG1	N/A	30 TAC Chapter 115, HRVOC Fugitive Emissions	Not located in the HGA area.
FUG1	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not located in HGA, BPA, DFW, or El Paso areas.
FUG2	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Gregg, Nueces, or Victoria County.
FUG2	N/A	30 TAC Chapter 115, HRVOC Fugitive Emissions	Not located in the HGA area.
FUG2	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not located in HGA, BPA, DFW or El Paso areas.
FUG3	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Gregg, Nueces, or Victoria County.
FUG3	N/A	30 TAC Chapter 115, HRVOC Fugitive Emissions	Not located in the HGA area.
FUG3	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not located in HGA, BPA, DFW or El Paso areas.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-CTG	GT1, GT2, GT3, GT4	30 TAC Chapter 112, Sulfur Compounds	Not a liquid or solid fuel-fired steam generator, furnace, or heater.
GRP-CTG	GT1, GT2, GT3, GT4	30 TAC Chapter 117, Subchapter B	Not located in an applicable ozone nonattainment area.
GRP-CTG	GT1, GT2, GT3, GT4	30 TAC Chapter 117, Subchapter E, Division 1	Equipment placed in service on or after December 31, 1995.
GRP-CTG	GT1, GT2, GT3, GT4	40 CFR Part 60, Subpart KKKK	Not constructed, modified, or reconstructed after February 18, 2005.
GRP-CTG	GT1, GT2, GT3, GT4	40 CFR Part 63, Subpart YYYY	Not located at a major source of HAPs.
GRPHRSGSTK	STACK1, STACK2, STACK3, STACK4	30 TAC Chapter 115, HRVOC Vent Gas	Not located in the HGA area.
GRPHRSGSTK	STACK1, STACK2, STACK3, STACK4	30 TAC Chapter 115, Vent Gas Controls	Not located in HGA, BPA, DFW or El Paso areas.
LAKE-ENG	N/A	30 TAC Chapter 112, Sulfur Compounds	Not a liquid or solid fuel-fired steam generator, furnace or heater.
LAKE-ENG	N/A	30 TAC Chapter 117, Subchapter B	Not located in an applicable ozone non-attainment area.
LAKE-ENG	N/A	40 CFR Part 60, Subpart IIII	Not constructed, modified or reconstructed after July 11th, 2005.
TANK1	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK1	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANK10	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK10	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK11	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK11	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK12	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK12	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK13	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK13	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK14	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK14	N/A	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANK15	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK15	N/A	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons.
TANK16	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK16	N/A	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons.
TANK17	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK17	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK18	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK18	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK19	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK19	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANK2	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK2	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK20	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK20	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK21	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK21	N/A	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons.
TANK22	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK22	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK23	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK23	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANK24	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK24	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK25	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK25	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK26	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK26	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK27	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK27	N/A	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons.
TANK28	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK28	N/A	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANK29	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK29	N/A	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons.
TANK3	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK3	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK30	N/A	30 TAC Chapter 115, Industrial Wastewater	Not an affected source category.
TANK30	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK30	N/A	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons.
TANK31	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK31	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK4	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANK4	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK5	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK5	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK7	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK7	N/A	40 CFR Part 60, Subpart Kb	Capacity < 19,800 gallons.
TANK8	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK8	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TANK9	N/A	30 TAC Chapter 115, Storage of VOCs	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
TANK9	N/A	40 CFR Part 60, Subpart Kb	Does not store a VOL.
TOMV1	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Gregg, Nueces, or Victoria County.
TOMV1	N/A	30 TAC Chapter 115, HRVOC Fugitive Emissions	Not located in the HGA area.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TOMV1	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not located in HGA, BPA, DFW or El Paso areas.
TOMV2	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Gregg, Nueces, or Victoria County.
TOMV2	N/A	30 TAC Chapter 115, HRVOC Fugitive Emissions	Not located in the HGA area.
TOMV2	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not located in HGA, BPA, DFW or El Paso areas.
TOMV3	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Gregg, Nueces, or Victoria County.
TOMV3	N/A	30 TAC Chapter 115, HRVOC Fugitive Emissions	Not located in the HGA area.
TOMV3	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not located in the HGA, BPA, DFW or El Paso areas.
TOMV4	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Gregg, Nueces, or Victoria County.
TOMV4	N/A	30 TAC Chapter 115, HRVOC Fugitive Emissions	Not located in the HGA area.
TOMV4	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not located in the HGA, BPA, DFW or El Paso areas.
TOMV5	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Gregg, Nueces, or Victoria County.
TOMV5	N/A	30 TAC Chapter 115, HRVOC Fugitive Emissions	Not located in the HGA area.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TOMV5	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not located in the HGA, BPA, DFW or El Paso areas.
TOMV6	N/A	30 TAC Chapter 115, Fugitives Pet Ref B Counties	Not located in Gregg, Nueces, or Victoria County.
TOMV6	N/A	30 TAC Chapter 115, HRVOC Fugitive Emissions	Not located in the HGA area.
TOMV6	N/A	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	Not located in HGA, BPA, DFW or El Paso areas.
WATERSEP1	N/A	30 TAC Chapter 115, Industrial Wastewater	Not an affected source category.
WATERSEP1	N/A	30 TAC Chapter 115, Water Separation	Not located in the HGA, BPA, DFW, or El Paso areas and Gregg, Nueces, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.
WATERSEP2	N/A	30 TAC Chapter 115, Industrial Wastewater	Not an affected source category.
WATERSEP2	N/A	30 TAC Chapter 115, Water Separation	Not located in HGA, BPA, DFW or El Paso areas and Gregg, Nueces, Victoria, Aransas, Bexar, Calhoun, Matagorda, San Patricio, or Travis County.

New Source Review Authorization References

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX940	Issuance Date: 04/12/2016
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 41249	Issuance Date: 04/12/2016
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.262	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.412	Version No./Date: 09/04/2000
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.474	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
CT1	Cooling Tower	41249, PSDTX940
CT2	Cooling Tower	41249, PSDTX940
DEG1	Cold Solvent Cleaner	106.454/11/01/2001
DFWP1	Diesel Firewater Pump	41249, PSDTX940
DFWP1STK	Diesel Firewater Pump Stack	41249, PSDTX940
EMERG	Diesel Emergency Generator	106.511/09/04/2000
EMERGSTK	Diesel Emergency Generator Stack	106.511/09/04/2000
FGHEATER	11 MMBtu/hr Fuel Gas Heater	106.183/09/04/2000
FUG1	Piping Fugitives - Natural Gas Turbine Area	41249, PSDTX940
FUG2	Piping Fugitives - Natural Gas - Metering Area	41249, PSDTX940
FUG3	Piping Fugitives - Natural Gas - Boiler Area	41249, PSDTX940
GT1	Combustion Turbine 1	41249, PSDTX940
GT2	Combustion Turbine 2	41249, PSDTX940
GT3	Combustion Turbine 3	41249, PSDTX940
GT4	Combustion Turbine 4	41249, PSDTX940
LAKE-ENG	Lake Pump Engine	106.511/09/04/2000
STACK1	CTG/Heat Recovery Steam Generator Stack 1	41249, PSDTX940
STACK2	CTG/Heat Recovery Steam Generator Stack 2	41249, PSDTX940
STACK3	CTG/Heat Recovery Steam Generator Stack 3	41249, PSDTX940
STACK4	CTG/Heat Recovery Steam Generator Stack 4	41249, PSDTX940
TANK10	Phosphate Storage Tank	106.472/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TANK1	13% Sodium Hypochlorite Storage Tank	41249, PSDTX940
TANK11	Phosphate Storage Tank	106.472/09/04/2000
TANK12	Phosphate Storage Tank	106.472/09/04/2000
TANK13	HCl Storage Tank	106.474/09/04/2000
TANK14	Dispersant Tank	106.472/09/04/2000
TANK15	Dispersant Tank	106.472/09/04/2000
TANK16	Coagulant Storage Tank	106.532/09/04/2000
TANK17	Corrosion Inhibitor	106.472/09/04/2000
TANK18	Corrosion Inhibitor	106.472/09/04/2000
TANK19	Polymer Storage Tank	106.472/09/04/2000
TANK20	Demin Water Storage Tank	106.472/09/04/2000
TANK2	13% Sodium Hypochlorite Storage Tank	41249, PSDTX940
TANK21	Condensate Boiler Water	106.472/09/04/2000
TANK22	Service Water Storage Tank	106.472/09/04/2000
TANK23	Sodium Bisulfute Storage Tank	106.472/09/04/2000
TANK24	Corrosion Inhibitor	106.472/09/04/2000
TANK25	Sodium Bisulfute Storage Tank	106.472/09/04/2000
TANK26	Sodium Hypochlorite	106.472/09/04/2000
TANK27	Lube Oil Tanks at Turbines	106.472/09/04/2000
TANK28	Lube Oil Storage Tank	106.472/09/04/2000
TANK29	Hydrolic Oil for Turbines	106.472/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TANK30	Compressor Crankcase Oil	106.472/09/04/2000
TANK31	Neutralizating Tanks	106.532/09/04/2000
TANK3	93% Sulfuric Acid Storage Tank	41249, PSDTX940
TANK4	Demin Water Storage Tank	106.472/09/04/2000
TANK5	Caustic Storage Tank	41249, PSDTX940
TANK7	Diesel Fuel Storage Tank	41249, PSDTX940
TANK8	93% Sulfuric Acid Storage Tank	41249, PSDTX940
TANK9	93% Sulfuric Acid Storage Tank	41249, PSDTX940
TOMV1	Lubrication Oil Vent, Turbine 1	41249, PSDTX940
TOMV2	Lubrication Oil Vent, Turbine 2	41249, PSDTX940
TOMV3	Lubrication Oil Vent, Turbine 3	41249, PSDTX940
TOMV4	Lubrication Oil Vent, Turbine 4	41249, PSDTX940
TOMV5	Lubrication Oil Vent, Turbine 5	41249, PSDTX940
TOMV6	Lubrication Oil Vent, Turbine 6	41249, PSDTX940
WATERSEP1	Underground Oil/Water Separator	106.532/09/04/2000
WATERSEP2	Underground Oil/Water Separator	106.532/09/04/2000

Appendix A

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table

Permit Number: 41249 and PSDTX940					Issuance Date: 04/12/2016		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates ***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
STACK1	GT/Unfired HRSG	CO (N.O. and S.S.)	--	338.68	6, 10, 12, 13, 15, 19, 20	4, 10, 12, 13, 15, 18, 19, 20,21, 22	12, 13, 23, 24
		CO (N.O.)	86.17	--			
		CO (S.S.)	2400	--			
		NO_x (N.O. and S.S)	--	252.91			
		NO_x (N.O.)	63.40	--			
		NO_x (S.S.)	339.40	--			
		$PM/PM_{10}/PM_{2.5}$	18.00	78.84			
		SO_2	11.19	4.47			
		VOC (N.O. and S.S.)	--	10.75			
		VOC (N.O.)	2.80	--			
		VOC (S.S.)	183.49	--			
STACK2	GT/Unfired HRSG	CO (N.O. and S.S.)	--	338.68	6, 10, 12, 13, 15, 19, 20	4, 10, 12, 13, 15, 18, 19, 20, 21, 22	12, 13, 23, 24
		CO (N.O.)	86.17	--			
		CO (S.S.)	2400	--			
		NO_x (N.O. and S.S)	--	252.91			
		NO_x (N.O.)	63.40	--			
		NO_x (S.S.)	339.40	--			
		$PM/PM_{10}/PM_{2.5}$	18.00	78.84			
		SO_2	11.19	4.47			
		VOC (N.O. and S.S.)	--	10.75			
		VOC (N.O.)	2.80	--			
		VOC (S.S.)	183.49	--			

Major NSR Summary Table

Permit Number: 41249 and PSDTX940					Issuance Date: 04/12/2016		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates ***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
STACK3	GT/Unfired HRSG	CO (N.O. and S.S.)	--	338.68	6, 10, 12, 13, 15, 19, 20	4, 10, 12, 13, 15, 18, 19, 20, 21, 22	12, 13, 23, 24
		CO (N.O.)	86.17	--			
		CO (S.S.)	2400	--			
		NO_x (N.O. and S.S)	--	252.91			
		NO_x (N.O.)	63.40	--			
		NO_x (S.S.)	339.40	--			
		$PM/PM_{10}/PM_{2.5}$	18.00	78.84			
		SO_2	11.19	4.47			
		VOC (N.O. and S.S.)	--	10.75			
		VOC (N.O.)	2.80	--			
		VOC (S.S.)	183.49	--			
STACK4	GT/Unfired HRSG	CO (N.O. and S.S.)	--	338.68	6, 10, 12, 13, 15, 19, 20	4, 10, 12, 13, 15, 18, 19, 20, 21, 22	12, 13, 23, 24
		CO (N.O.)	86.17	--			
		CO (S.S.)	2400	--			
		NO_x (N.O. and S.S)	--	252.91			
		NO_x (N.O.)	63.40	--			
		NO_x (S.S.)	339.40	--			
		$PM/PM_{10}/PM_{2.5}$	18.00	78.84			
		SO_2	11.19	4.47			
		VOC (N.O. and S.S.)	--	10.75			
		VOC (N.O.)	2.80	--			
		VOC (S.S.)	183.49	--			

Major NSR Summary Table

Permit Number: 41249 and PSDTX940					Issuance Date: 04/12/2016		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates ***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
CT-1	Cooling Tower 10 Cells (6)	$PM/PM_{10}/PM_{2.5}$	1.31	5.75			
CT-2	Cooling Tower 10 Cells (6)	$PM/PM_{10}/PM_{2.5}$	1.31	5.75			
TOMV1	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15			
TOMV2	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15			
TOMV3	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15			
TOMV4	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15			
TOMV5	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15			
TOMV6	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15			
TANK1	Sodium Hypochlorite Storage Tank	NaClO	<0.01	<0.01			
TANK2	Sodium Hypochlorite Storage Tank	NaClO	<0.01	<0.01			
TANK3	Sulfuric Acid Storage Tank	H_2SO_4	<0.01	<0.01			
TANK5	Caustic Storage Tank	NaOH	<0.01	<0.01			
TANK7	Diesel Fuel Storage Tank	VOC	0.09	<0.01			
TANK8	Sulfuric Acid Storage Tank	H_2SO_4	<0.01	<0.01			
TANK9	Sulfuric Acid Storage Tank	H_2SO_4	<0.01	<0.01			
FUG-1	Natural Gas Pipeline Fugitive Emissions (8)	VOC	0.03	0.11			
FUG-2	Natural Gas Pipeline Fugitive Emissions (8)	VOC	0.02	0.10			

Major NSR Summary Table

Permit Number: 41249 and PSDTX940					Issuance Date: 04/12/2016		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates ***		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hr	**TPY****	**Spec. Cond.**	**Spec. Cond.**	**Spec. Cond.**
FUG-3	Natural Gas Pipeline Fugitive Emissions (8)	VOC	0.01	0.03			
DFWP1	Diesel Firewater Pump (5)	CO	3.13	0.16		7, 22	
		NO_x	10.48	0.55			
		$PM/PM_{10}/PM_{2.5}$	0.20	0.01			
		SO_2	0.74	0.04			
		VOC	0.13	0.01			
MSSFUG	MSS-Related Fugitives	NOx	<0.01	<0.01	19, 20	19, 20, 21, 22	
		CO	<0.01	<0.01			
		SO_2	-	-			
		VOC	2.07	0.01			
		PM_{10}	0.05	<0.01			

Footnotes:

*Emission rates are based on an operating schedule of 8,760 hours/year.

**Compliance with the annual emission limits shall be based on a rolling 12-month year rather than the calendar year.

(1) Emission point identification – either specific equipment designation or emission point number.

(2) Specific point source name. For fugitive sources use area name or fugitive source name.

(3) VOC – volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x – total oxides of nitrogen

CO – carbon monoxide

SO_2 – sulfur dioxide

PM – particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$.

PM_{10} – particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

$PM_{2.5}$ – particulate matter equal to or less than 2.5 microns in diameter.

H_2SO_4 – sulfuric acid

NaOH – sodium hydroxide

NaClO – sodium hypochlorite

N.O. – normal operating conditions

S.S. – startup and shutdown activities

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emissions are based on non-emergency operation of 104 operating hours per year.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Freestone Power Generation, LLC
Authorizing the Construction and Operation of
Freestone Energy Center
Located at **Fairfield, Freestone County, Texas**
Latitude 31° 53′ 28″ Longitude –96° 6′ 38″

Permits: 41249 and PSDTX940
Revision Date: April 12, 2016
Expiration Date: April 9, 2020

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling

facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions

Permit Numbers 41249 and PSDTX940

Federal Applicability

1. These facilities shall comply with applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources, Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart A, General Conditions and Subpart GG, Stationary Gas Turbines.

   If any condition of this permit is more stringent than the regulations so incorporated, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

Emission Standards and Operating Specifications

2. The holder of this permit is authorized to construct and operate four General Electric Model 7241FA combustion turbine generator (CTG) units and two steam turbines.

3. The heat recovery steam generating (HRSG) units authorized by this permit are unfired, natural circulation, and three-pressure reheat design units.

4. The CTGs shall normally operate at 100 percent base load except for periods of startup or shutdown. Reduced load operation is authorized to accommodate periods of reduced power demands provided the maximum pounds per hour emission rates specified in the attached table entitled "Emission Sources - Maximum Allowable Emissions Rates" for Emission Point Nos. (EPNs) STACK1, STACK2, STACK3, or STACK4 are not exceeded.

5. Fuel for CTGs is limited to pipeline-quality natural gas containing no more than 2.0 grains total sulfur per 100 dry standard cubic feet. Use of any other fuel shall require an amendment to this permit.

6. Upon request by the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel fired in the gas turbines, or shall allow air pollution control agency representatives to obtain a sample for analysis.

7. The firewater pump diesel engine is limited to a maximum of 104 non-emergency hours of operation annually and shall be fired with diesel fuel containing not more than 0.2 weight percent sulfur.

8. Chromium-based solutions shall not be used in the Cooling Towers (EPNs CT-1 and CT-2).

9. CTG Emission Limits: **(01/14)**

   A. Emissions of nitrogen oxides (NO_x) shall not exceed 9 parts per million by volume dry basis (ppmvd) (one-hour average) when corrected to 15 percent oxygen (O_2), without correction to International Standards Organization conditions, at any load except during periods of planned maintenance, startup, or shutdown (MSS).

   B. Emissions of carbon monoxide (CO) shall not exceed 20.1 ppmvd (one-hour average) when corrected to 15 percent O_2, at full load except during periods of planned MSS.

   C. Emissions of volatile organic compounds (VOC), as defined in Title 30 Texas Administrative Code § 101.1 (30 TAC § 101.1), shall not exceed 1.2 ppmvd (one-hour average) when corrected to 15 percent O_2, at full load except during periods of planned MSS.

      Compliance with this condition shall be demonstrated by completion of the initial stack sampling as described in Special Condition No. 12 and use of Special Condition No. 15.

10. Opacity of emissions from all stack sources covered by this permit shall not exceed 5 percent averaged over a six-minute period, except during periods of startup or shutdown. This determination shall be made by first observing for visible emissions while the facility is operating. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point(s). If visible emissions are observed from the stack(s), then opacity shall be determined by 40 CFR Part 60, Appendix A, Test Method 9. Contributions from uncombined water shall not be included in determining compliance with this condition. Observations shall be performed and recorded quarterly. If opacity exceeds five percent, corrective action to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation.

Initial Determination of Compliance

11. Sampling ports and platforms shall be incorporated into the design of EPNs STACK1, STACK2, STACK3, and STACK4 according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.

12. Upon request by the TCEQ Executive Director, TCEQ Waco Regional Director, or any air pollution control agency having jurisdiction, the holder of this permit shall perform stack sampling and other testing as required to establish the actual quantities of air contaminants being emitted into the atmosphere from at least two of the four units, EPNs STACK1, STACK2, STACK3, and STACK4. If any unit sampled exceeds the allowable emissions, or there is a significant deviation in the results of the two sampled units, additional units may be required to be sampled. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with the appropriate EPA Test Methods 201A and 202 or Test Method 5, modified to include back-half condensibles, for the concentration of particulate matter equal to or less than 10 microns in diameter (PM_{10}); Test Method 8 or Test Methods 6 or 6c for sulfur dioxide (SO_2); Test Method 9 for opacity (consisting of 240 readings for one hour, four per minute); Test Method 10 for the concentration of CO; Test Method 18 Section 7.2, for the concentration of VOC (to measure total carbon as methane); and Test Method 20 for the concentrations of $NO_x$and O_2 or equivalent methods.

    Fuel sampling using the methods and procedures of 40 CFR § 60.335(d) may be conducted in lieu of stack sampling for SO_2. If fuel sampling is used, compliance with 40 CFR Part 60, Subpart GG, SO_2 limits shall be based on 100 percent conversion of the sulfur in the fuel to SO_2 Any deviations from those procedures must be approved by the Executive Director of the TCEQ prior to sampling. The TCEQ Executive Director, or his designated representative, shall be afforded the opportunity to observe all such sampling. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

    A. The TCEQ Waco Regional Office shall be contacted as soon as testing is scheduled but not less than 45 days prior to sampling to schedule a pre-test meeting.

        The notice shall include:

        (1) Date for pre-test meeting;

(2) Date sampling will occur;

(3) Name of firm conducting sampling;

(4) Type of sampling equipment to be used;

(5) Method or procedure to be used in sampling;

(6) Procedure used to determine turbine loads during and after the sampling period; and

(7) Method to determine gas turbine inlet air concentration of particulate matter, if necessary.

The purpose of the pre-test meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports. A written proposed description of any deviation from sampling procedures specified in permit conditions, or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pre-test meeting.

The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Austin Office of Air, Air Permits Division. Test waivers and alternate/equivalent procedure proposals for New Source Performance Standards (NSPS) testing, which must have the EPA approval, shall be submitted to the TCEQ Regional Director.

B. Air emissions from each CTG shall be tested while firing at full load for the ambient conditions at the time of testing. Air emissions to be sampled and analyzed while at full load include (but are not limited to) NO_x, O_2, CO, VOC, SO_2, PM_{10}, and opacity. (Fuel sampling using the methods and procedures of 40 CFR § 60.335[d] may be conducted in lieu of stack sampling for SO_2.)

C. Air emissions from each CTG shall be tested while firing at the minimum load, approximately 50 percent of base load. Air emissions to be sampled and analyzed while at minimum load include (but are not limited to) O_2 and VOC.

D. Sampling of each gas turbine shall occur within 60 days after achieving the maximum production rate at which each will be operated but no later than 180

days after initial startup of each unit. Additional sampling shall occur as may be required by the TCEQ or EPA.

E. For all testing conducted pursuant to this permit condition, the holder of this permit shall monitor and record the fuel flow rate to each tested unit and include these values in the sampling report, along with site conditions, gas turbine loads, and other relevant parameters as determined at the pretest meeting or as outlined in the TCEQ Sampling Procedures Manual.

F. Within 60 days after the completion of the testing and sampling required herein, Three copies of the sampling reports shall be distributed as follows:

One copy to the TCEQ Waco Regional Office.
One copy to the TCEQ Office of Air, Air Permits Division, Austin.
One copy to the EPA Region 6 Office, Dallas.

G. Initial sampling for EPN STACK1 and EPN STACK2 was performed in May 2002. Initial sampling for EPN STACK3 and EPN STACK4 was performed in July 2002.

Continuous Determination of Compliance for CO and NO_x

13. The holder of this permit shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) to measure and record the concentrations of NO_x, CO, and O_2 from each CTG Stack (EPNs STACK1, STACK2, STACK3, and STACK4). Fuel supply records shall be used to record the concentration of SO_2 from each CTG Stack (EPNs STACK1, STACK2, STACK3, and STACK4). The initial certification and relative accuracy test audit (RATA) shall be conducted prior to or during the sampling required by Special Condition No. 12.

A. Monitored NO_x and CO concentrations shall be corrected and reported in dimensional units corresponding to the emission rate and concentration limits established for the gas turbines in this permit.

B. The NO_x and O_2 CEMS shall meet the applicable certification and quality-assurance requirements specified in 40 CFR Part 75, Appendices A and B, respectively. The CO CEMS shall meet the applicable certification and quality-assurance requirements of 40 CFR Part 60, Appendices B and F, respectively. All CEMS downtime of one hour or greater shall be recorded by the CEMS. Any relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3, and any CEMS downtime in excess of four hours shall be

reported to the appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director. Compliance with the reporting requirements of 40 CFR Part 60, Subpart A and Special Condition No. 24 will satisfy the reporting requirements of this condition.

C. The monitoring data shall be reduced to hourly average values at least once everyday, using a minimum of four equally-spaced data points from each one-hour period. Two valid data points shall be generated during the hourly period in which zero and span is performed.

D. All monitoring data and quality-assurance data shall be maintained by the source for a period of two years and shall be made available to the TCEQ Executive Director or his designated representative upon request. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit. Hourly average concentrations from EPNs STACK1, STACK2, STACK3, and STACK4 shall be summed to tons per year and used to determine compliance with the emission limits of this permit.

E. The TCEQ Waco Regional Office shall be notified at least 30 days prior to any required RATA in order to provide them the opportunity to observe the testing.

14. If any emission monitor fails to meet specified performance, it shall be repaired or replaced immediately, but no later than seven days after it was first detected by any employee at the facility, unless written permission is obtained from the TCEQ which allows for a longer repair/replacement time. The holder of this permit shall develop an operation and maintenance program (including stocking necessary spare parts) to ensure that the continuous monitors are available as required.

15. The holder of this permit shall additionally install, calibrate, maintain, and operate continuous monitoring systems to monitor and record the average hourly natural gas consumption of the gas turbines. The systems shall be accurate to ±5.0 percent of the units' maximum flow.

Planned Maintenance, Startup, and Shutdown (MSS) (01/14)

16. This permit authorizes the emissions from the planned MSS activities listed in Attachment A, Attachment B, and the maximum allowable emission rates (MAERT) attached to this permit. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment B identifies the planned maintenance activities that are non-ILE planned maintenance activities that this permit authorizes to be performed.

17. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility.

18. Emissions during planned startup and shutdown activities will be minimized by limiting the duration of operation in planned startup and shutdown mode as follows**:**

    A. A planned startup of a CTG (EPN Nos. STACK1, STACK2, STACK3, and STACK4) is defined as the period that begins when measurable fuel flow is recorded and ends 60 minutes after the combustion unit reaches Mode 6Q operation. A planned cold startup for the CTG is limited to 480 minutes. A planned warm startup for the CTG is limited to 180 minutes. A cold startup is defined as a startup where the unit being fired has not operated more than 3 hours in combined cycle mode within a rolling 24 hour period. A warm startup is defined as a startup that is not a cold startup. **(04/16)**

    B. A planned shutdown of a CTG (EPN Nos. STACK1, STACK2, STACK3, and STACK4) is defined as the period that begins when the unit drops out of Mode 6Q and ends when measurable fuel flow is no longer recorded. A planned shutdown for that CTG is limited to 180 minutes. **(04/16)**

    C. Emissions from combustion turbine optimization activities, as defined in Attachment B, shall be subject to the hourly emission limits for MSS activities from gas turbines listed on the MAERT. The emissions from such activities shall not exceed the hourly emission limits for non-MSS activities for more than eight hours per calendar day.

    D. Emissions from combustion turbine diagnostic load reduction activities as identified in Attachment B shall be subject to the hourly emission rates listed on the MAERT and shall not exceed 72 hours per calendar year for all EPN Nos.

STACK1, STACK2, STACK3, and STACK4. **(04/16)**

19. Compliance with the emission limits for planned MSS activities identified in the MAERT attached to this permit may be demonstrated as follows.

    A. For each pollutant emitted during ILE planned maintenance activities, the permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the permit application for all ILE planned maintenance activities. The total emissions from all ILE planned maintenance activities (See Attachment A) shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.

    B. For each pollutant emitted during non-ILE planned maintenance activities (See Attachment B) whose emissions are measured using a CEMS, as per Special Condition No. 20A, the permit holder shall do the following for each calendar month.

        (1) Compare the pollutant's short-term (hourly) emissions during planned maintenance activities as measured by the CEMS to the applicable short-term planned MSS emissions limit in the MAERT.

        (2) Once the pollutant's emissions during planned maintenance activities have been measured by the CEMS for 12 months after the MSS permit amendment has been issued, compare the rolling 12-month emissions of the pollutant, as determined using the CEMS data, to the applicable annual planned MSS emissions limit in the MAERT.

    C. For each pollutant emitted during non-ILE planned maintenance activities (See Attachment B) whose emissions occur through a stack, but are not measured using CEMS as per Special Condition No. 20A, the permit holder shall do the following for each calendar month.

        (1) Determine the total emissions of the pollutant through the stack that result from such non-ILE planned maintenance activities in accordance with Special Condition No. 20B.

        (2) Once monthly emissions have been determined in accordance with Special Condition No. 19C(1) for 12 months after the MSS permit amendment has been issued, the permit holder shall compare the rolling 12-month emissions for the pollutant to the applicable annual planned MSS emissions limit in the MAERT.

D. For each pollutant emitted during non-ILE planned maintenance activities (See Attachment B) whose emissions do not occur through a stack, the permit holder shall do the following for each calendar month.

(1) Determine the total emissions of the pollutant from such non-ILE planned maintenance activities in accordance with Special Condition No. 20B.

(2) Once monthly emissions have been determined in accordance with Special Condition No. 19D(1) for 12 months after the MSS permit amendment has been issued, the permit holder shall compare the sum of the rolling 12-month emissions for the pollutant for all non-ILE planned maintenance activities to the annual emissions limit for the pollutant in the MAERT.

20. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 19 as follows.

A. For each pollutant whose emissions during normal facility operations are measured with a CEMS that has been certified to measure the pollutant's emissions over the entire range of a planned MSS activity, the permit holder shall measure the emissions of the pollutant during the planned MSS activity using the CEMS.

B. For each pollutant not described in Special Condition No. 20A, the permit holder shall calculate the pollutant's emissions during all occurrences of each type of planned MSS activity for each calendar month using the frequency of the planned MSS activity identified in work orders or equivalent records and the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application. In lieu of using the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application to calculate such emissions, the permit holder may determine the emissions of the pollutant during the planned MSS activity using an appropriate method, including but not limited to, any of the methods described in paragraphs 1 through 4 below, provided that the permit holder maintains appropriate records supporting such determination:

(1) Use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations.

(2) Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.

(3) Use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.

Recordkeeping Requirements

21. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, EPA, or any air pollution control agency with jurisdiction.

    A. A copy of this permit.

    B. Permit application dated April 30, 1999, and subsequent representations submitted to the TCEQ.

    C. A complete copy of the testing reports and records of the initial performance testing completed pursuant to Special Condition No. 12 to demonstrate initial compliance.

    D. Stack sampling results or other air emissions testing (other than CEMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.

22. The following information shall be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection and shall be made immediately available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction:

    A. The CEMS data of NO_x, CO, and O_2 emissions from EPNs STACK1, STACK2, STACK3, and STACK4 to demonstrate compliance with the emission rates listed in the MAERT;

    B. Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems in a permanent form suitable for inspection;

    C. Records of the hours of operation and average daily quantity of natural gas fired in the CTGs; and

D. Records of the hours of operation of the diesel fire water pump and records of fuel usage for this unit on an annual basis.

E. Records of the hours of diagnostic load reduction activities. **(04/16)**

F. Records to demonstrate compliance with Special Condition No. 18. **(01/14)**

G. Documentation of emissions from planned MSS activities in accordance with Special Condition No. 19 and Special Condition No. 20. **(01/14)**

Reporting

23. The holder of this permit shall submit to the TCEQ Waco Regional Office and the Air Enforcement Branch of EPA in Dallas reports as described in 40 CFR § 60.7 in accordance with NSPS requirements. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit. In addition to the information specified in 40 CFR § 60.7(c), each report shall contain the hours of operation of the equipment authorized by this permit and a report summary of the periods of noncomplying emissions and CEMS downtimes by cause.

24. If the average NO_x, CO, or SO_2 stack outlet emission rate exceeds the maximum allowable emissions rate for more than one hour, the holder of this permit shall investigate and determine the reason for the exceedance and, if needed, make necessary repairs and/or adjustments as soon as possible. If the NO_x, CO, or SO_2 emission rate exceeds the emission rate in the MAERT for more than 24 hours, the permit holder shall notify the TCEQ Regional Office either verbally or with a written report detailing the cause of the increase in emissions and all efforts being made to correct the problem.

Other Authorizations at the Site

25. The following facilities and activities at the site are authorized under permit by rule by Title 30 Texas Administrative Code Chapter 106:

Facility/Activity	Authorization
Air Conditioning and Ventilation Systems	§106.103
Fuel Gas Heater	§106.183
Welding, Soldering, Brazing Equipment	§106.227
Boiler Tube Cleaning SF_6 Cylinder Maintenance	§106.263
Fuel Line Purging	§106.355
Maintenance and Shop Painting Outdoor Equipment Painting	§106.433
Abrasive Blasting	§106.452
Degreasing Unit	§106.454
Tanks and Oil/Water Separators	§106.472, §106.474, §106.532
Temporary Equipment	§106.511

Dated: April 12, 2016

Attachment A

Inherently Low Emitting (ILE) Planned Maintenance Activities

	Emissions				
Planned Maintenance Activity	VOC	NO_x	CO	PM	SO_2
Gaseous Fuel Venting	x				
Miscellaneous particulate filter maintenance[1]				x	
Boiler Tube Cleaning[2]	x				
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instruments including sight glasses, meters, gauges, CEMS	x	x	x		x
Turbine washing – unit online[3]				x	
Small equipment and fugitive component repair/replacement in VOC[4]	x				

Notes:

1. Includes, but is not limited to, baghouse filters, ash silo/transfer filters, coal handling filters, process-related building air filters, and combustion turbine air intake filters.
2. Includes pre-heater basket handling and maintenance, refractory change-out, fan maintenance and balancing, damper, air heater, and soot blower maintenance, and any other general boiler maintenance that does not exceed the worst-case emissions representation in the application.
3. Involves use of water only
4. Includes, but is not limited to, (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in natural gas, fuel oil, diesel oil, ammonia, lube oil, and gasoline service, (ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service, and (iii) off-line NOx control device maintenance (including maintenance of the anhydrous ammonia systems and aqueous ammonia systems associated with SCR systems and SNCR systems)

Dated: January 27, 2014

Attachment B

Non-ILE Planned Maintenance Activities

Planned Maintenance Activity	EPN	Emissions				
		VOC	NO_x	CO	PM	SO_2
Combustion Turbine optimization[1]	STACK1/STACK2/ STACK3/STACK4	x	x	x	x	x
Diagnostic Load Reduction Activities[2,3]	STACK1/STACK2/ STACK3/STACK4	x	x	x	x	x

Notes:

1. Includes, but is not limited to, (i) leak and operability checks (e.g., turbine over-speed tests, troubleshooting), (ii) balancing, and (iii) tuning activities that occur during seasonal tuning or after the completion of initial construction, a combustor change-out, a major repair, maintenance to a combustor, or other similar circumstances.
2. Includes, but is not limited to combustion turbine load reductions (runbacks) associated with: initiation of steam turbine operation, low load steam turbine operation, variability in water or fuel supply, electric generator protection , turbine operation variability *(including: combustor flashback, primary combustion zone re-ignition, combustion exhaust blade path spread)*
3. Hourly emissions from these activities will be subject to the hourly emission limit for MSS activities from gas turbines listed on the MAERT.

Dated: April 12, 2016

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 41249 and PSDTX940

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK1	GT/Unfired HRSG	NO_x	63.40	252.91
		CO	86.17	338.68
		SO_2	11.19	4.47
		VOC	2.80	10.75
		PM	18.00	78.84
		PM_{10}	18.00	78.84
		$PM_{2.5}$	18.00	78.84
STACK2	GT/Unfired HRSG	NO_x	63.40	252.91
		CO	86.17	338.68
		SO_2	11.19	4.47
		VOC	2.80	10.75
		PM	18.00	78.84
		PM_{10}	18.00	78.84
		$PM_{2.5}$	18.00	78.84

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK3	GT/Unfired HRSG	NO_x	63.40	252.91
		CO	86.17	338.68
		SO_2	11.19	4.47
		VOC	2.80	10.75
		PM	18.00	78.84
		PM_{10}	18.00	78.84
		$PM_{2.5}$	18.00	78.84
STACK4	GT/Unfired HRSG	NO_x	63.40	252.91
		CO	86.17	338.68
		SO_2	11.19	4.47
		VOC	2.80	10.75
		PM	18.00	78.84
		PM_{10}	18.00	78.84
		$PM_{2.5}$	18.00	78.84
STACK1	GT/Unfired HRSG (MSS)	NO_x	339.40	-
		CO	2400.00	-
		SO_2	11.19	-
		VOC	183.49	-
		PM	18.00	-
		PM_{10}	18.00	-
		$PM_{2.5}$	18.00	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
STACK2	GT/Unfired HRSG (MSS)	NO_x	339.40	-
		CO	2400.00	-
		SO_2	11.19	-
		VOC	183.49	-
		PM	18.00	-
		PM_{10}	18.00	-
		$PM_{2.5}$	18.00	-
STACK3	GT/Unfired HRSG (MSS)	NO_x	339.40	-
		CO	2400.00	-
		SO_2	11.19	-
		VOC	183.49	-
		PM	18.00	-
		PM_{10}	18.00	-
		$PM_{2.5}$	18.00	-
STACK4	GT/Unfired HRSG (MSS)	NO_x	339.40	-
		CO	2400.00	-
		SO_2	11.19	-
		VOC	183.49	-
		PM	18.00	-
		PM_{10}	18.00	-
		$PM_{2.5}$	18.00	-

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
DFWP1	Diesel Firewater Pump (5)	NO_x	10.48	0.55
		CO	3.13	0.16
		SO_2	0.74	0.04
		VOC	0.13	0.01
		PM	0.20	0.01
		PM_{10}	0.20	0.01
		$PM_{2.5}$	0.20	0.01
CT-1	Cooling Tower (6)	PM	1.31	5.75
		PM_{10}	1.31	5.75
		$PM_{2.5}$	1.31	5.75
CT-2	Cooling Tower (6)	PM	1.31	5.75
		PM_{10}	1.31	5.75
		$PM_{2.5}$	1.31	5.75
TOMV1	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15
TOMV2	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15
TOMV3	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15
TOMV4	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15
TOMV5	Turbine Oil Mist Vent Fugitives (7)	VOC	0.03	0.15
TOMV6	Sodium Hypochlorite Storage Tank	VOC	0.03	0.15
TANK1	Sodium Hypochlorite Storage Tank	NaOCl	<0.01	<0.01
TANK2	Sodium	NaOCl	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
	Hypochlorite Storage Tank			
TANK3	Sulfuric Acid Storage Tank	H_2SO_4	<0.01	<0.01
TANK5	Caustic Storage Tank	NaOH	<0.01	<0.01
TANK7	Diesel Fuel Storage Tank	VOC	0.09	<0.01
TANK8	Sulfuric Acid Storage Tank	H_2SO_4	<0.01	<0.01
TANK9	Sulfuric Acid Storage Tank	H_2SO_4	<0.01	<0.01
FUG-1	Natural Gas Pipeline Fugitive Emissions (8)	VOC	0.03	0.11
FUG-2	Natural Gas Pipeline Fugitive Emissions (8)	VOC	0.02	0.10
FUG-3	Natural Gas Pipeline Fugitive Emissions (8)	VOC	<0.01	0.03
MSSFUG	MSS-Related Fugitives	NO_x	<0.01	<0.01
		CO	<0.01	<0.01
		SO_2	-	-
		VOC	2.07	0.01
		PM_{10}	0.05	<0.01

Emission Sources - Maximum Allowable Emission Rates

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2SO_4 - sulfuric acid
NaOH - sodium hydroxide
NaOCl - sodium hypochlorite
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emissions are based on non-emergency operation of 104 operating hours per year.
(6) Cooling tower PM_{10} emissions are an estimate only based on manufacturers' data. Cooling tower assembly has ten vent fan exhausts; emissions are sum-total of all ten exhausts.
(7) Turbine oil mist-vent emissions are estimates only based on mist-vent eliminator manufacturer data.
(8) Fugitive emissions are an estimate based on component count and applicable fugitive emission factors.

Date: January 27, 2014